

What is claimed is:

1. A method of treating a subject having an insulin-related disorder, the method comprising reducing the level of active p85 α in a cell of the subject.

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2. A method of treating a subject having an insulin-related disorder, the method comprising increasing the level of p85 β in a cell of the subject.

3. A method of identifying a subject at risk for an insulin-related disorder, the
10 method comprising evaluating the expression of p85 α to determine if the subject is at risk.

4. A method of analyzing a treatment for its effect on insulin metabolism, the method comprising providing a cell in which the expression of p85 α has been altered.

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5. A genetically modified animal lacking expression of p85 α , p55 α , and p50 α .

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